

Title (en)  
GRANULAR MATERIAL FOR THERMAL FUSION TYPE THREE-DIMENSIONAL PRINTERS, METHOD FOR PRODUCING SHAPED ARTICLE,  
AND FILAMENT

Title (de)  
KÖRNIGES MATERIAL FÜR DREIDIMENSIONALE THERMOFUSIONSDRUCKER, VERFAHREN ZUR HERSTELLUNG GEFORMTER  
GEGENSTÄNDE UND FILAMENT

Title (fr)  
MATÉRIAU GRANULAIRE POUR IMPRIMANTES TRIDIMENSIONNELLES DU TYPE À FUSION THERMIQUE, PROCÉDÉ DE PRODUCTION  
D'ARTICLE MIS EN FORME ET FILAMENT

Publication  
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Application  
**EP 20867959 A 20200925**

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Abstract (en)  
The present invention provides a granular material for a fused deposition three-dimensional printer that enables a flexible molded object to be manufactured with high precision. According to the present invention, provided is a granular material for a fused deposition three-dimensional printer, wherein the granular material is formed of a thermoplastic elastomer, and the thermoplastic elastomer has, at least one of the measurement temperature of 120 to 270 °C, a loss tangent  $\tan \delta$  of 0.40 or more and a loss modulus  $G''$  of 11000 Pa or less, which are measured with a rotary rheometer having a pair of parallel plates with a diameter of 20 mm and a measurement gap of 1.3 mm at a frequency of 0.1 Hz.

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